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May 1979

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MONTANA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL SCIENCES

STATE DOCUMENTS COLLECTION

Monthly Activities Report  
of the Air Quality Bureau

JUL 30 1979

May, 1979

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Helena, Montana 59601

1. Highlights

A staff meeting was held for the Air Quality Bureau staff, as well as the local county agencies to discuss budgets, network reviews, and problems anyone might be having.

The Bureau budget was prepared and submitted for FY 80.

2. Ambient Air Quality Network

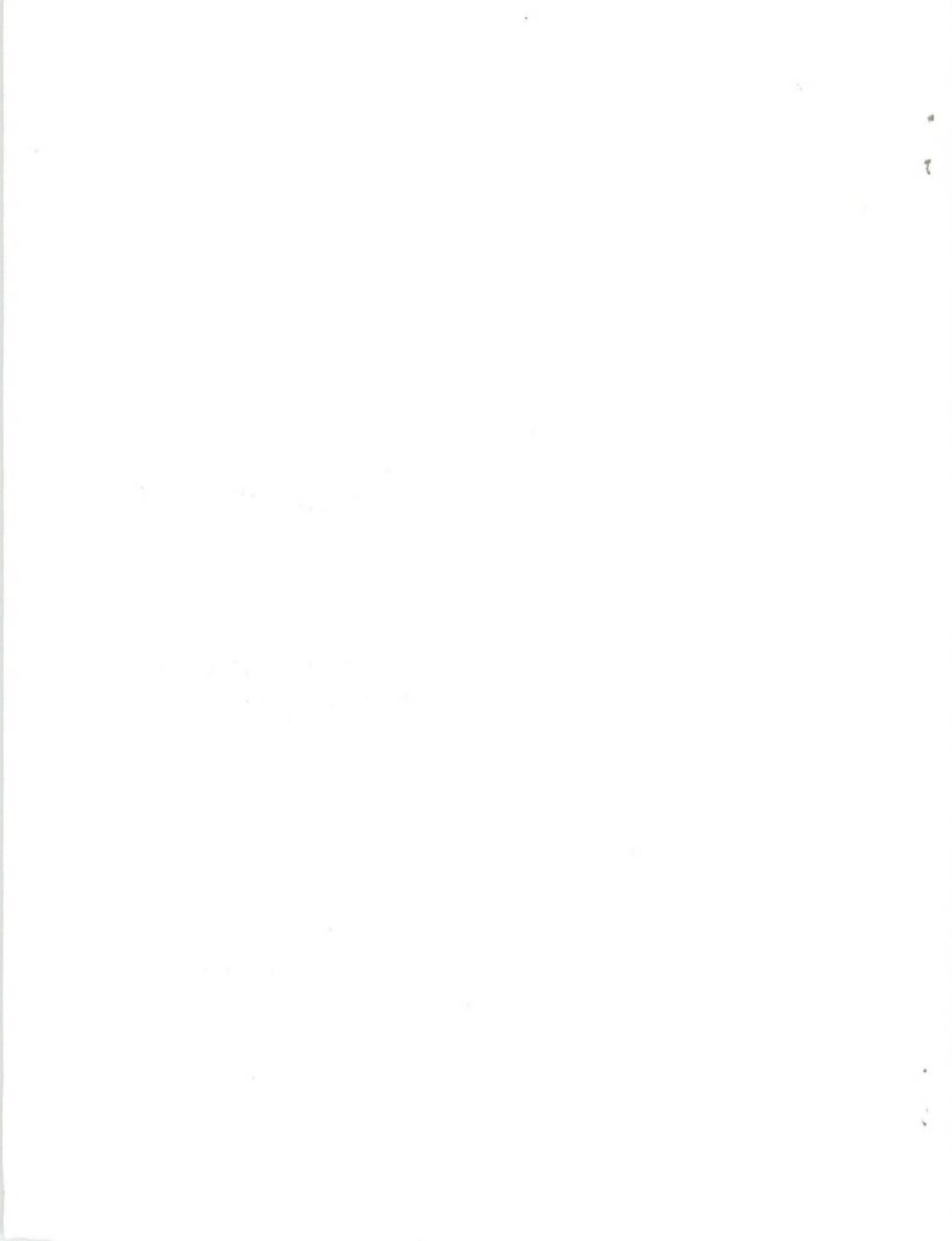
- a. Standards exceeded: elevated readings of sulfur dioxide and ozone were recorded at Central Park (Billings) and an elevated reading of sulfur dioxide was recorded at Lockwood during mid-May.
- b. Air Stagnation Advisories - None in May
- c. Laboratory Status - Information not received for May
- d. Other

Network review will cause some ambient monitoring network changes based on the May 10, 1979, Federal Register. In general, TSP and CO sampling will increase, while sampling for other parameters will decrease. Certain company stations will be integrated into the state's monitoring system.

3. Permits and Tax Credits

a. Construction Permits, Applied for

Department of Highways, Missoula, hot mix plant  
Gus Albert, Dawson County, hot mix plant  
Department of Highways, Flathead Co., asphalt plant  
Department of Highways, St. Regis Canyon, hot mix plant  
Century Paving, Sheridan Co., Barber Greene asphalt plant  
Department of Highways, Townsend, asphalt plant  
Empire Sand & Gravel, Big Horn Co., gravel crusher and batch plant  
Peter Kiewit Sons, Babb, crushing plant  
Rehbein Contracting, Mineral & Missoula, asphalt plant  
Jim Gilman Excavating, Deer Lodge Co., crushing plant  
R. J. Studer, Carbon Co., crushers  
Department of Highways, Custer Co., hot mix plant  
Baltrusch Construction, Blaine Co., portable gravel crusher  
Department of Highways, Fergus Co., hot mix plant  
R. J. Studer, Carbon Co., asphalt plant  
Department of Highways, Roundup, batch plant



3. Continued

Construction permits approved

ASARCO-Troy, baghouse and crusher  
U. S. Gypsum, Fergus Co., dust collectors  
Zook Construction, portable gravel crushers  
Zook Construction, jaw crushers  
Century Paving, Fergus Co., asphalt batch plant  
Century Paving, Sheridan Co., dryer drum mixer  
Maronick Construction, Judith Basin, gravel crusher  
Meyer Construction, Sheridan Co., portable gravel crusher  
Department of Highways, St. Regis, hot mix plant  
Gus Albert, Dawson Co., hot mix plant  
Department of Highways, Roundup, asphalt batch plant  
Jim Gilman, Deer Lodge Co., crushing plant  
R. J. Studer, Carbon Co., asphalt plant

c. Tax Credits

Montana Power and Puget Power have applied for additional tax credit for Colstrip Units 1 and 2.

4. Variance Status

a. Current

Anaconda Company, SO<sub>2</sub> variance approved in November, 1978  
ASARCO, one year variance granted through June 30, 1979

b. New - None in May

5. Enforcement Actions

a. Citations:

Butte Silver Bow batch plant

b. Notice of Violations:

Butte Silver Bow batch plant

6. Tepee Burner and Open Burning

Tepee burner - number in operation - 20

Open burning permits issued:

Kalispell Office	155	Sanders County	165
Cascade County	42	Yellowstone County	118
Lake County	149	Rest of State	1692
Missoula County	47	Total	2368



Monthly Report

May, 1979

Page 3

7. Source Tests Performed

- a. Agency Source tests - None in May
- b. Non-agency source tests - None in My

8. Field Investigations

Butte-Silver Bow County hot mix plant, excess emissions, citation issued  
Caird Engineering, Helena, yellow smoke, investigation  
MONTCO, Powder River County, inspected monitoring sites for proposed  
coal mine  
Peabody Coal Company, Rosebud County, investigated mine site  
Montana Pole and Treating, Butte, investigation  
Louisiana Pacific, Deer Lodge, investigation  
Brand S Lumber, Livingston, investigation  
Rice Transport, Shelby, investigation

9. Complaints

Plum Creek Lumber, Columbia Falls, soot, telephoned  
Helena Sewage Treatment Plant, Helena, odor, referred to Water Quality  
Top Quality Cleaning, Butte, dust, conversed by telephone  
Exxon, Billings, stack plume impacting area  
Exxon, Billings, strong inversion  
Unidentified, Lockwood, strong odor  
Individual, Mill Creek, smelter emissions causing health problems  
Individual, Colstrip, dust, investigation  
Brand S, Livingston, soot, investigation  
Individual, Kalispell, open burning, letter sent  
C & C Plywood, Kalispell, smoke, inspection

10. Data Processing Services

- a. Ambient Data Summary - Attached
- b. Emission Inventory Status: no significant activities
- c. Prevention of Significant Deterioration - no significant activities
- d. Modeling - work continuing on readying the UNAMAP models and  
constructing the Montana Air Resources Modeling System.

11. Environmental Impact Statements

Work is continuing on the Ambient Air Quality Standards Study; final  
impact statement is due out in August

12. Status of Studies, Contracts and Reports

Poplar River Study - second year report due in July  
Flathead Environmental Study - first year report due in July  
MAPS Meteorology report - due in June  
MAPS Mutagen report - due in July



13. Schools and Training

State AQB-local staff meeting held in May.  
Attended week meeting in Denver reviewing quality assurance, network review, and general monitoring problems.

14. Public Hearings and Meetings

Board of Health Hearing, May 13, 1979

Meetings attended:

EPA, Helena, regarding Poplar River status  
Government officials, Regina, Sask., regarding Poplar River power plants  
federal agencies, Helena, statewide air monitoring agreement  
EPA, Denver, monitoring meeting with Region 8 people  
American Colloid, Helena, discuss sampling plans for bentonite plant

Intra-staff meetings

AQB staff meetings  
MAPS staff meetings

15. Public Information Requests

Rules and regulations - New rules sent out to those requesting them  
approximately 50 copies  
Clean Air Act - approximately 8  
Many miscellaneous pamphlets and reports for high school students for term papers on air pollution



## MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

## MONTHLY SUMMARY OF AIR QUALITY DATA

April 1979

## Pollutants: Miscellaneous Continuous Data Units: ppm

Pollutant	Area	HIGH READING					Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days, or	
AQCR	Site Location						
140	Carbon Monoxide						
141	Fairgrounds Billings		***				
141	10th and South Great Falls	9.7	16.8	15.8	2.53	4	
142	Alpine West Butte	2.2	16.0	16.0	1.45	4	
	Hebgen Park Butte						
	Lincoln School						
	Anacoda						
144	Malfunction Jct.						
	Missoula						
	Lion's Park		***				
	Missoula						
142	Hydrocarbons						
	Hebgen Park						
	Butte						
	Lincoln School						
	Anacoda						
144	Lion's Park						
	Missoula						
	Ozone						
140	Central Park Billings	0.078	0.078	0.110	0.019	4	
142	Lincoln School	0.056	0.060	0.060	0.037	4	
	Anacoda						
	Hebgen Park						
	Butte						
144	Lion's Park		***				
	Missoula						

\*\*\* - Insufficient data for month.

## Pollutants: Miscellaneous Continuous Data Units: ppm

Pollutant	Area	HIGH READING					Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days, or	
AQCR	Site Location						
140	Nitrogen Dioxide						
	Central Park Billings	0.060	0.095	0.095	.020	2	
142	Lincoln School	0.035	0.035	0.035	.004	4	
	Anacoda						
	Hebgen Park						
	Butte						
144	Lion's Park						
	Missoula						
140	Sulfur Dioxide						
	Central Park Billings	0.110	0.225	0.225	0.015	4	
	Lockwood Sch.	0.350	0.350	0.350	0.011	4	
	Billings						
	Laurel Farm						
	Butte						
142	East Stack						
	East Helena						
	Microwave						
	East Helena						
	Broad Branch						
	East Helena						
144	Highway Jct.						
	Anacoda						
	Mill Creek						
	Billings						
	Lincoln School						
	Anacoda						
	Hebgen Park						
	Butte						

\*\* - Site temporarily shut down.

## Pollutants: Miscellaneous Indicators Units

Pollutant	Area	HIGH READING					Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days, or	
AQCR	Site Location						
141	Dustfall - tons/mi. sq. mi.						
	Mountain Stat.						
141	Great Falls						
	Fire Sta. #1						
	Fire Sta. #2						
140	Sulfation Rate	mg O <sub>2</sub> /100 sq. cm.					
	378 ml. NE Coop						
	Billings						
	E of Laurel						
	Billings						
	HI Bldg. Trucking						
141	Stock Car Track						
	Great Falls						
	Phillips Ref. N						
	Phillips Ref. E						
	Great Falls						
142	Microwave						
	East Helena						
	21st & Pacific						
	East Helena						
	East Stack Sta.						
	East Helena						
	Broad Branch						
	East Helena						
	25th & Pricky Pea						
	East Helena						

## Pollutants: Miscellaneous Indicators Units

Pollutant	Area	HIGH READING					Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days, or	
AQCR	Site Location						
144	Fluoride Papers	mg/sq. cm./30 days					
	Gallatin's Mt Box						
	Flathead Co.						
	Anacoda South						
	Flathead Co.						
	Glacier Park #1						
	Glacier Park #2						
	Glacier Park #3						
	Glacier Park #4						
	Glacier Park #5						
	Glacier Park #6						
	Fluoride Plates	mg/sq. cm./30 days					
144	Anacoda South						
	Flathead Co.						
	Trailer NAAC						
	Flathead Co.						
	Glacier Park #1						
	Glacier Nat. Pk						
	Glacier Park #2						
	Glacier Nat. Pk						
	Glacier Park #3						
	Glacier Park #4						
	SO2 Bubbler - PDP						
143	Border Site						
	Scobey						
	NO2 Bubbler - PDP						
143	Border Site						
	Scobey						



## MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

## MONTHLY SUMMARY OF AIR QUALITY DATA

April 1979

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQC#	Site Location	HIGH READING		ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	
140	Morton-Decker Big Horn Co.	49	79	79	30	4
	Warren Ranch Big Horn Co.		**			
	Kings Billings	46	69	155	42	4
	City Hall Billings	122	288	288	84	3
	Grand Ave. Sch.	171	302	302	82	4
	Central Park Billings	134	246	246	56	4
	Laurel Jr. High Laurel	57	81	111	34	4
	Highway Roof Great Falls		*			
	Fire Sta. #1 Great Falls		*			
	Kiwanis Park Great Falls	78	111	111	38.5	4
141	Highway Jct. Anaconda		*			
	Lincoln School Anaconda	94	303	303	47.5	4
	Floral Park Butte	109	112	112	57	4

\* - Data unavailable at time of report.

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQC#	Site Location	HIGH READING		ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	
142	McKinley Res. Granite Co.	97	97	142	40	4
	Dr. Canty Res. Butte	148	161	181	68	4
	Butte Gallagher School	86	196	196	89	4
	Butte Heben Park	98	225	225	78	4
	Tierney Res. Jefferson Co.	80	80	81	35	4
	McGraw Co. Microwave	41	89	101	36	4
	Jefferson Co. 212 E. Pacific	86	124	201	74	4
	East Helena Coswell Bldg.	72	211	211	62	4
	Lame Deer Rosebud Co.	11	11	34	5	4
	Fort Peck McCullough Co.	15	15	58	8	4
143	Bill Site Colstrip	27	40	138	18	2
	McKae Site Colstrip	31	31	31	12	4
	Border Site Scobey	13	14	80	8	4

\*\* - No valid samples submitted.

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQC#	Site Location	HIGH READING		ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	
144	Anders Res. Col. Falls	257	353	375	119	4
	Trailer NARC	63	63	63	25	4
	Flathead Co. Flathead Lake Co.	168	168	170	63	4
	Polson Lake Co.	94	94	96	34	3
	Missoula City Missoula Co.		****			
	Lobby-Brown Lincoln Co.	475	523	1384	196	4
	Kalispell-Strom Flathead Co.	184	343	343	106	4
	Courthouse Roof	130	267	267	94	4
	Lion's Park Missoula	135.3	419	419	124.9	4
	Hilssoula Rose Park Missoula	116.6	317	3.7	106.6	4
145	Koerner-Wald.#1	73.3	117.9	117.9	43.2	4
	Missoula Co.	79.3	157.7	200.9	45	4
	Koerner-Wald.#2	73.9	96.5	124.8	34.7	4
146	Missoula Co. Kalispell-Airport	117	120	120	61	3

\*\*\*\* - Equipment malfunction - no data.

Pollutant: Respirable Particulate-Dichotomous Sampler Units: microgram/cubic meter

AQC#	Site Location	HIGH READING		ARITHMETIC AVER.		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	
140	Central Park Billings					**
	Kiwanis Park Great Falls					
	Bill Site fire	43.5	104.4	104.4	20.83	4
141	Lincoln School Anaconda	17.3	21.3	28.9	13.78	4
	Heben Park Butte					
	coarse fine					
142	Floral Park Fire Sta. - Butte	182.5	132.5	132.5	20.40	3
	coarse fine					
	Border Site Scobey	78.1	78.1	78.1	12.05	3
143	Lion's Park Missoula	15.0	36.1	36.1	19.03	3
	coarse fine					
	Courthouse Roof Missoula	68.3	184.2	184.2	43.18	4
144	coarse fine					
	50.0	72.7	72.7	34.3	26.8	3
	55.0	65.0	65.0			

\* - Data Unavailable at time of report.

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